

**Work Order ID 56668**

March 4, 2010 11:02:57 AM



Page 1

Item ID: D3696-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Arm Assembly

Start Date: 3/04/10

Start Qty: 4.00



Cust Item ID:

Required Date: 3/12/10

Req'd Qty: 4.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

Draw Nbr

Revision Nbr

D3696

Rev C

100

0.00



BAND SAW

Bandsaw

Memo

0.00

Jeaspa Bandsaw

Cut blank 17.750" long

SL 10/03/08

110

0.00



CONVENTIONAL MILLING MACHINE

Mill Conv

Memo

0.00

Conventional Milling Machine

1- Mill as per dwg D3696112-Deburr as per dwg D3696

SL 10/03/08

(4)

120

0.00



QC2- Inspect parts off machine FAI/FAIB

QC

Memo

0.00

Quality Control

SL 10/03/08

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Work Order ID 56668

March 4, 2010 11:02:57 AM



Item ID: D3696-041

Accept



Setup Start



Revision ID:

Item Name: Arm Assembly

Stop



Start Date: 3/04/10 Start Qty: 4.00



Cust Item ID:

Required Date: 3/12/10 Req'd Qty: 4.00



Customer:

Reference:

Run Start



Approvals: Process Plan: Date: Tooling: Date:

Stop



QC: Date: SPC (Y/N): Date:

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130 QC8- Inspect parts - second check

0.00



QC

Memo

0.00

*L.F. 10/03/08*

*4*

*0*

Quality Control

140 Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

*~~L.F. 10/03/08~~*  
*M 10/03/08*

*(x4)*

*(S)*

Hand Finishing

150 Grey Sandtex(Ref:4.3.5.6) per QSI005 4.3

0.00



Powdercoat

Memo

0.00

*=> M 10/03/10*

*(x4)*

*(S)*

Powder Coating

*1- mask prior to painting as per dwg (see note 8) START TIME:  
7:30 AM OVEN TEMPERATURE: 8:00 AM FINISH  
TIME: 320°F*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

2. Once the problem is identified, the next step is to define the objectives and goals of the project. This helps to clarify what needs to be achieved and provides a clear direction for the project.

3. The third step is to develop a plan or strategy to address the problem. This involves identifying the resources needed, the timeline, and the specific actions to be taken.

4. After the plan is developed, the next step is to implement the plan. This involves putting the plan into action and monitoring progress.

5. Finally, the last step is to evaluate the results of the project. This involves assessing whether the objectives were met and identifying any lessons learned for future projects.

Page 3

**Accept**

\_\_\_\_\_

**Setup Start**[illegible]

**Stop**

[illegible]

**Abstract**

**Cust Item ID:**

**Customer:**

Run Start

\_\_\_\_\_

**Stop**

**00000000000000000000**

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

# Insp. Stamp

BR 10-3-10

[illegible]

0.00

## Quality Control

0.00

[illegible]

0.00

**1-Install Helicoil □ 2-Press Bushing □ 3-Install Plunger**

$\Rightarrow m, n$  10/03/10

0.00

[illegible]

0.00

## Quality Control

8/10/03/10

79

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 56668**

March 4, 2010 11:02:58 AM



Page 4

Item ID: D3696-041

Accept



Setup Start



Revision ID:

Stop



Item Name: Arm Assembly

Start Date: 3/04/10 Start Qty: 4.00



Cust Item ID:

Required Date: 3/12/10 Req'd Qty: 4.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run HoursDraw  
NumberDraw  
Rev.Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

190

Identify as per dwg & Stock Location: 205

0.00



Packaging

Memo

0.00

Packaging

\_\_\_\_\_  
10/03/11 (4)

200

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

\_\_\_\_\_  
10/03/11  
ME 10-3-11

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

March 4, 2010 11:02:55 AM

Page 1

Work Order ID: 56668

Parent Item: D3696-041

Parent Item Name: Arm Assembly

Comments: IPP Rev:A New Issue 08-05-01 JLM Verified By:EC  
IPP Rev:B 08-07-22 redesign part (prelim) DD verified by:EC

Start Date: 3/04/10

Required Date: 3/12/10

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
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Oilite Bronze Bushing

Warehouse  
Location

Main Warehouse

ST

44915

Loc Qty

60

60

Each

Loc Code

24.0000

4.0000

D3801-3



Hand Retractable Spring Plunger

Manufactured

No

4X m-l  
10/03/10

Warehouse  
Location

Main Warehouse

ST

44538

Loc Qty

4

4

Loc Code

Main Warehouse

ST88

55571

20

20

f

16.0700

6.1231

M7075T6B1.000X1.000

Purchased

No



7075 T6 BAR 1.00 x1.00

4X m-l  
10/03/10

Warehouse  
Location

Main Warehouse

MAT

107984

113796

Loc Qty

16.07

4.07

12

Loc Code

4.0 SL 10/03/07

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

Page 2

March 4, 2010 11:02:56 AM

Work Order ID: 56668



Parent Item: D3696-041



Parent Item Name: Arm Assembly

Start Date: 3/04/10

Required Date: 3/12/10

Comments: IPP Rev:A New Issue 08-05-01 JLM Verified By:EC  
IPP Rev:B 08-07-22 redesign part (prelim) DD verified by:EC

Start Qty: 4.00

Required Qty: 4.00

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Remaining Qty To Pick	Qty Issued	Date Issued	Status
MS21209C8-20		Purchased	No				Each	160.0000	4.0000			



Heli Coil Insert

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

160

108066

160

42 m-h  
10/03/10

March 4, 2010 11:02:56 AM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

<b>DART AEROSPACE LTD</b>		<b>Work Order:</b> 56668
<b>Description:</b> arm		<b>Part Number:</b> D3696-1
<b>Inspection Dwg:</b> D3696 <b>Rev:</b> C		<b>Page 1 of 1</b>

### FIRST ARTICLE INSPECTION CHECKLIST

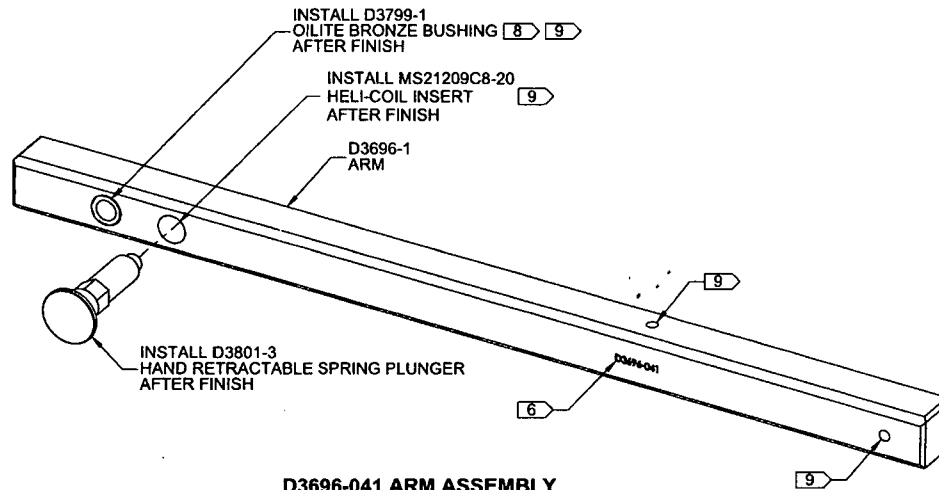
☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø.201	+0.005 -0.001	.201	✓			
Ø.500 x 300 deep	±0.010	.500 x 300	✓			
5.500	±0.010	5.500	✓			
.495	±0.010	.494	✓			
.990	±0.010	.988	✓			
1.000	±0.010	1.001	✓			
Ø.566	+0.001 -0	.566	✓			
.500	±0.010	.498	✓			
1.800	±0.010	1.800	✓			
1.250	±0.010	1.250	✓			
17.50	±0.030	17.50	✓			
.750	±0.010	.750	✓			
.06 x 45°	±0.030 ±.5°	.06 x 45°	✓			
.13 x 45°	±0.030 ±.5°	.13 x 45°	✓			

<b>Measured by:</b> JL	<b>Audited by:</b> LB	<b>Prototype Approval:</b> N/A
<b>Date:</b> 10/03/07	<b>Date:</b> 10/03/08	<b>Date:</b> N/A

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

ITEM	QTY -041	P/N	DESCRIPTION
1	X	D3696-041	ARM ASSEMBLY
5	1	D3799-1	ARM
6	1	D3799-1	OILITE BRONZE BUSHING
7	1	D3801-3	HAND RETRACTABLE SPRING PLUNGER
11	1	MS21209C8-20	HELI-COIL, SCREW LOCKING (RED)



**D3696-041 ARM ASSEMBLY**

**D3696-041 NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
POWDER COAT GREY SANDTEX (4.3.5.6) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3696-041" USING FINE POINT PERMANENT INK MARKER LOCATED APPROXIMATELY AS SHOWN
- 7) WEIGHT: 1.69 lbs
- 8) FACE D3799-1 OILITE BRONZE BUSHING FLUSH TO D3696-1 ARM AS REQUIRED ON BOTH SIDES PRIOR TO POWDER COATING
- 9) MASK HOLES AS SHOWN PRIOR TO POWDER COATING

C	REVISED ITEM 5 AS FOLLOWS: $\phi 0.201$ THRU CBORE $\phi 0.500 \times 0.300$ DP WAS 2 PL (ZN C4-2). REASON: REDESIGNED ARMREST CUSHION BASED ON FEEDBACK FROM END USERS AT HAI 2009	MB	09.06.17
B	P/N D3799-1 WAS BNT-137 (ZN D6-1); P/N D3801-3 WAS PRT-12 (ZN C7-1) - REASON: PURCHASED PARTS NOW PROCURED THROUGH D3799 AND D3801 SPEC CONTROL DRAWINGS; ADDED $\phi 0.201$ HOLE AND CBORE (ZN C6-2 AND D5-2); 17.50 WAS 18.50 (ZN B5-2); 1.000 WAS 0.990 $\pm 0.000$ $\phi 0.010$ (ZN C2-2) POCKETS REMOVED REASON: ELIMINATED FWD-AFT ARMREST ADJUSTMENT	MB	08.07.17
A	NEW ISSUE	MB	08.04.18
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.06.17		

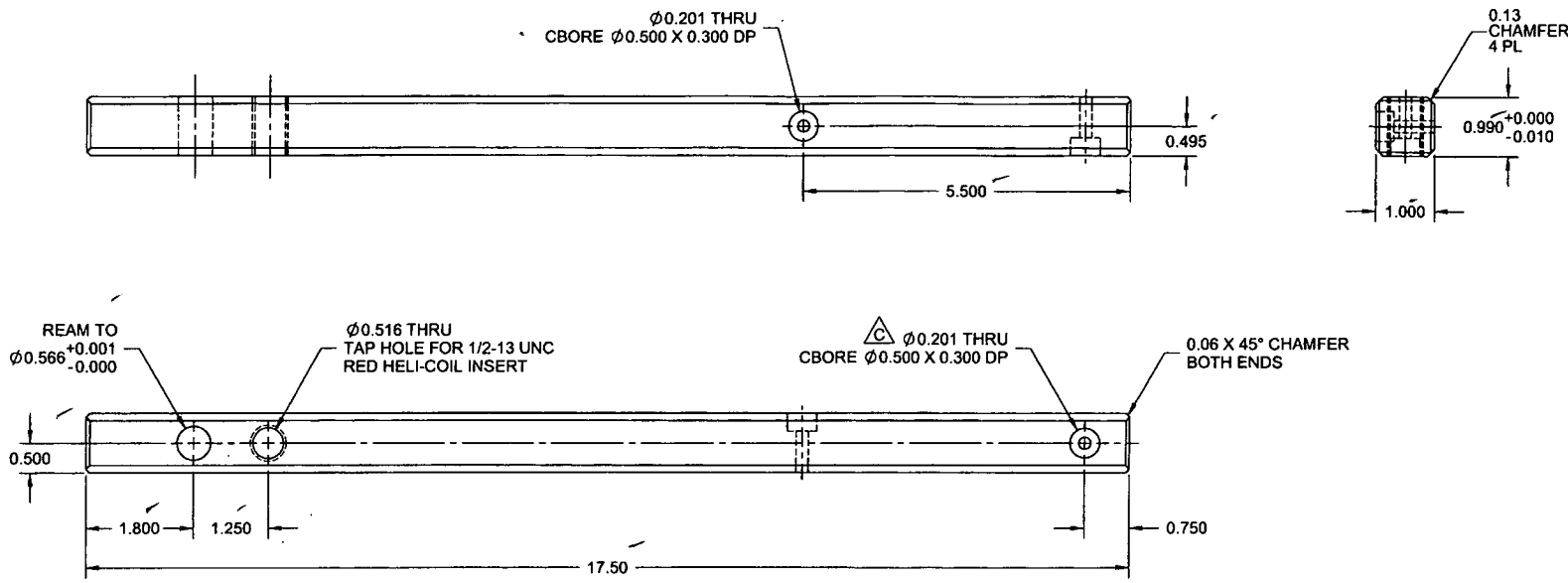
**RELEASED**

**DART AEROSPACE LTD**  
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D3696** REV. C  
SHEET 1 OF 2  
TITLE **ARM ASSEMBLY** SCALE NTS

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283  
261 544



D3696-1 ARM

Wb  
Solder

RELEASED  
9/16/17

- D3696-1 NOTES:
- 1) MATERIAL: 7075-T6 (OR T651/T6510/T6511/T62) ALUMINUM BAR  
PER AMS-QQ-A-225/9 (OR AMS 4122/4123/4186/4187) OR  
PER AMS-QQ-A-200/11  
REF. DART SPEC. M7075T6B
  - 2) FINISH: SEE SHEET 1
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: NONE
  - 7) WEIGHT: 1.63 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. C
MFG. APPR.		D3696	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		ARM ASSEMBLY	NTS
DATE	09.06.17	COPYRIGHT © 2008 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	